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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/595,595	06/15/2000	Von K. McConnell	1391	2025
28005	7590	03/18/2005	EXAMINER	
SPRINT 6391 SPRINT PARKWAY KSOPHT0101-Z2100 OVERLAND PARK, KS 66251-2100			NGUYEN, THUAN T	
			ART UNIT	PAPER NUMBER
			2685	

DATE MAILED: 03/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/595,595

Applicant(s)

MCCONNELL ET AL.

Examiner

THUAN T. NGUYEN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 and 10-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 and 10-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 June 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |  |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. <u>10/20/04</u> |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.   |

## **DETAILED ACTION**

### ***Response to After Final Amendment***

1. As a courtesy, the Examiner considered the AF Amendment mailed 06/28/04 as noted in the Interview Summary (dated 10/20/04).
2. Applicant's request for reconsideration of the finality of the rejection of the last Office action (with the AF amendment) is persuasive and, therefore, the finality of that action is withdrawn.

### ***Remark***

3. Claims 17-53 were canceled in the amendment dated 02/09/04. After Final amendment (6/28/04) cancels claim 9, pending claims are now 1-8, and 10-16.

### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1-8, and 10-16 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*A person shall be entitled to a patent unless –*

*(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.*

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6. Claims 1-8, and 10-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Lu et al. (US Patent 5,734,699)

Regarding claim 1, Lu discloses “a private wireless network, to which private network mobile stations subscribe, integrated with a public wireless network, to which public network mobile stations subscribe, said private wireless network being able to provide wireless telecommunications services to at least one mobile station that subscribes to said private wireless network and to said public wireless network, said public wireless network having a public network subscriber database containing a public network data record for each of said public network mobile stations, including a first data record for said at least one mobile station, said public wireless network providing a public network coverage area within which said at least one mobile station can communicate with said public wireless network over an air interface, said public wireless network including a public mobile switching center (MSC) serving mobile stations, operating in said public network coverage area,” (Lu, Fig. 6A for a private GSM cellular network 450 which connects to a public wireless network via a public MSC 462, and col. 14/line 66 to col. 16/line 64 for more details) said private wireless network (Fig. 6A/450) comprising:

“at least one base station providing a private network coverage area, said at least one mobile station being able to communicate with said at least one base station over an air interface when said at least one mobile station is operating in said private network coverage area; a switching system in communication with said at least one base station, said switching system including a private MSC serving mobile stations operating in said private network coverage area” (Fig. 6A includes BSC 454 and private MSC communicates with BSC over air interfaces

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each other and to mobile stations 458, 460; and Fig. 6B is a subsystem 452 of Figure 6A includes a private MSC 254 within the private wireless PBX system 452); and

“a private network subscriber database accessible by said switching system, said private network subscriber database containing a private network data record for each of said private network mobile stations, including a second data record for said at least one mobile station”, i.e., each mobile station is associated with its private network subscriber database as HLR 482 and VLS as a second data record for the at least one mobile station (as illustrated in Fig. 6B, and col. 16/line 65 to col. 17/line 47).

As for claim 2, in further view of claim 1, Lu further discloses “comprising a gateway service control point in communication with said switching system” (Fig. 6B/item 480 for a gateway MSC as a gateway service control point, and col. 16/line 65-col. 17/line 8).

As for claim 3, in further view of claim 2, Lu further discloses “wherein said private network subscriber database is located in said gateway service control point” (Fig. 6B illustrates the SCP 480 is within the network 482 including HLR/VLR 482 for subscriber databases).

As for claim 4, in view of claim 3, Lu further discloses “wherein said public network subscriber database is located in a home location register (HLR)”, i.e., public network subscriber data is stored in the HLR within the private network 452 (Fig. 6B, and col. 16/line 65 to col. 17/line 47).

As for claim 5, in view of claim 3, Lu discloses “wherein said first data record includes a first locator address for locating said at least one mobile station and said second data record includes a second locator address for locating said at least one mobile station”, i.e., more than one HLR is used for storing user profiles of the users including locator addresses and VLR

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further stores user profiles (Fig. 13A for format of registry of HLR, and Fig. 14 for the process of storing user profiles, and col. 26/line 65 to col. 27/line 45).

As for claim 6, in view of claim 5, Lu further shows “wherein said first locator address identifies said gateway SCP and said second locator address identifies said switching system” (Fig. 13A shows the identifying step of appropriate gateway service control point by Home Location and the Current location for servicing systems and switching system, see further in col. 27/line 17-col. 28/line 23).

As for claims 7 and 8, in view of claims 3 and 4, Lu discloses “wherein said SCP includes a plurality of service logic modules” and “wherein said HLR includes a plurality of service logic modules” (as shown in Fig. 6B as a plurality of service modules are used for performing logic functions and interfacing between applications for the SCP 480 and HLR 482, see col. 16/line 65 to col. 17/line 47).

(Claim 9 was canceled).

As for claim 10, in further view of claim 1, Lu further inherently discloses “wherein said switching system includes a second private MSC”, i.e., Figure 6A shows more than one BSC, and BSC 476 contains or works as a private MSC, then to another BSC 454, the implementation can be the same as in Figure 6A as a standardized procedure of including a second private MSC.

As for claim 11, in further view of claim 1, Lu further discloses “wherein said switching system includes a first private branch exchange (PBX)” (Fig. 6B, item 256).

As for claim 12, in view of claim 11, Lu discloses “wherein first PBX communicates with said gateway SCP via a computer telephony interface”, i.e., TRAU works as a computer

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telephony interface between PBX and other network elements (col. 5/lines 24-44 & col. 8/lines 55-67).

As for claim 13, in further view of claim 11, Lu further discloses “wherein said switching system includes a second PBX” (as shown in Fig. 5A as more than one PBX can be included).

As for claims 14 and 15, in further view of claim 1, Lu further discloses “wherein said first data record includes a first service profile for said at least one mobile station and said second data record includes a second service profile for said at least one mobile station” and “wherein said first service profile differs from said second service profile”, i.e., a first service profile associated with an VLR of a mobile station is distinct from a second service profile associated with at least one mobile station associated with a HLR (Fig. 6B, and col. 16/line 65 to col. 17/line 47).

As for claim 16, in view of claim 1, Lu discloses “wherein said private network wireless coverage area overlaps said public network coverage area” (Fig. 5A & 6B shows the private wireless PBX can cover overlaps the public network area since wireless PBX 452 includes interface for a wired PBX and the coverage must be (understood to be) overlapped based on a same system 452, see col. 17/lines 30-47).

### ***Conclusion***

**7. Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to: (703) 872-9306, (for Technology Center 2600 only)**

*Hand-delivered responses should be brought to Crystal Park II,  
2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).*

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

A handwritten signature in black ink, appearing to read 'Tony T. Nguyen', with a stylized flourish at the end.

**TONY T. NGUYEN  
PATENT EXAMINER**

Tony T. Nguyen  
Art Unit 2685  
January 18, 2005